

What is claimed is:

1. A grinding tool for sharpening a work piece comprising:
an oscillatory drive having a drive shaft which is driven oscillatingly about a longitudinal axis thereof;
a holder for mounting a working part being configured as a grinding plate having a flat grinding surface;
a fixed holding section provided on said holder and a removable clamping part provided on said holder for clamping said working part at one end thereof between said fixed holding section and said removable clamping part;
at least one tensioning part for fixing said working part between said fixed holding section and said removable clamping part of said holder in a position so that said grinding surface extends in a plane substantially perpendicularly to said drive shaft;
wherein said clamping part comprises an outer surface which serves as a guide surface for supporting a surface of said work piece to define a predetermined angle between said surface of said work piece and said grinding surface of said working part when guiding said grinding tool along said surface of said work piece for sharpening said work piece.
2. The grinding tool of claim 1, wherein said predetermined angle is between 10° and 40°.
3. The grinding tool of claim 2, wherein said predetermined angle is about 15°.
4. The grinding tool of claim 1, comprising a plurality of different clamping parts designed for different predetermined angles and being exchangeable against each other so as to allow a setting of the predetermined angle.

5. The grinding tool of claim 1, wherein said clamping part comprises an outer surface that ends toward said flat grinding surface in a circular arc when said working part is clamped between said holding section and said clamping part.
6. The grinding tool of claim 5, wherein said holder comprises a mounting opening for mounting said grinding tool on said drive shaft of said oscillatory drive.
7. The grinding tool of claim 6, wherein said circular arc defines a centre which is located within a centre of said mounting opening.
8. The grinding tool of claim 1, wherein said grinding plate comprises two outer surfaces each of which is configured as a grinding surface.
9. The grinding tool of claim 8, wherein said two grinding surfaces protrude to the outside beyond said fixed holding section and beyond said clamping part.
10. The grinding tool of claim 1, wherein said working part comprises at least one grinding surface having a coating comprising diamond abrasive particles with a coarse of D126.
11. The grinding tool of claim 1, wherein said working part comprises at least one grinding surface having a coating comprising hard metal abrasive particles equivalent to a diamond coarse of D126.
12. The grinding tool of claim 1, wherein said holding section of said holder comprises threaded holes for receiving tensioning parts configured as screws.

13. The grinding tool of claim 12, wherein said clamping part comprises recesses configured for receiving screws in a sunk-in configuration.

14. A holder in a grinding tool for sharpening a work piece using an oscillatory drive having a drive shaft which is driven oscillatingly about a longitudinal axis thereof, wherein:

said holder is configured for mounting a working part to said drive shaft of said oscillatory drive, said working part being configured as a grinding plate having a flat grinding surface;

said holder comprises a fixed holding section and a removable clamping part for clamping said working part at one end thereof between said fixed holding section and said removable clamping part;

said holder comprises at least one tensioning part for fixing said working part between said fixed holding section and said removable clamping part of said holder in a position so that said grinding surface extends in a plane substantially perpendicularly to said drive shaft;

wherein said clamping part comprises an outer surface which serves as a guide surface for supporting a surface of said work piece to define a preset angle between said surface of said work piece and said grinding surface of said working part when guiding said grinding tool along said surface of said work piece for sharpening said work piece.